



Permit to Construct or Modify an Air Contaminant Source Issued Pursuant to Tennessee Air Quality Act

Date Issued: October 15, 2015

Permit Number:

970499P

Date Expires: October 14, 2017

Issued To:

Tennessee Department of Safety and Homeland Security
Cookeville Dispatch Center

Installation Address:

1291 S. Walnut Ave.
Cookeville

Installation Description:

One (1) Internal Combustion Propane
Fuel-Fired Emergency Engine (88.3 hp, 50KW)
for a Generator

Emission Source Reference No.

71-0365-01
NSPS 40 CFR 60 Subpart JJJJ
NESHAP 40 CFR 63 Subpart ZZZZ

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations (TAPCR).

CONDITIONS:

1. The application that was utilized in the preparation of this permit is dated June 29, 2015, and is signed by Stephen Philyaw, Radio Systems Analyst for the permitted facility. If this person terminates employment or is assigned different duties and is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

TAPCR 1200-03-09-.01(1)(d)

(conditions continued on next page)

TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON-TRANSFERABLE

POST AT INSTALLATION ADDRESS

2. The stated design power output capacity for the internal combustion engine is 88.3 horsepower (hp)(50 KW). Any increase in this capacity shall require a construction permit.

TAPCR 1200-03-09-.01(1)(d) and the application dated June 29, 2015

3. Only propane shall be used as fuel for this source.

TAPCR 1200-03-09-.01(1)(d) and the application dated June 29, 2015

4. Particulate Matter (TSP) emitted from this source shall not exceed 0.6 pound per million British thermal units (lb/MMBtu) of heat input (0.14 pound per hour). Compliance with this emission limit shall be assured by compliance with **Conditions 2** and **3** and the records required by **Condition 13**.

TAPCR 1200-03-06-.02(2)

5. Stationary Spark Ignition (SI) Internal Combustion Engines (ICE) that commence construction after June 12, 2006, and were manufactured on or after January 1, 2009, and are identified as emergency engines as specified in 40 CFR Part 60 Subpart JJJJ - §60.4230(a)(4)(iv) are subject to 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

TAPCR 1200-03-09-.03(8) and 40 CFR 60 Subpart JJJJ - §60.4230

6. Carbon Monoxide (CO) emitted from this source shall not exceed 387 grams/ hp-hour (75.34 lb/ hr). Compliance with this emission limit is based on compliance with **Conditions 2** and **3** and the records required by **Conditions 10** and **13**.

TAPCR 1200-03-09-.03(8) and 40 CFR 60 Subpart JJJJ - §60.4233(d) and Table 1 of 40 CFR 60 Subpart JJJJ

7. Hydrocarbons and Nitrogen Oxides (HC + NO_x) emitted from this source shall not exceed 10.0 grams/hp-hour (1.95 lb/hr). Compliance with this emission limit is based on compliance with **Conditions 2** and **3** and the records required by **Conditions 10** and **13**.

TAPCR 1200-03-09-.03(8) and 40 CFR 60 Subpart JJJJ - §60.4233(d) and Table 1 of 40 CFR 60 Subpart JJJJ

8. The permittee must operate and maintain the stationary SI internal combustion engine to achieve the emission standards required in **Conditions 6** and **7** over the entire life of the engine. Compliance with this requirement is based on compliance with **Conditions 2** and **3** and the records required by **Conditions 10** and **13**.

TAPCR 1200-03-09-.03(8) and 40 CFR 60 Subpart JJJJ - §60.4234

9. The engine shall be equipped with a non-resettable hour meter.

TAPCR 1200-03-09-.03(8) and 40 CFR 60 Subpart JJJJ - §60.4237(c)

10. If the permittee operates and maintains the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, the permittee must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. The permittee must also meet the applicable requirements as specified in 40 CFR part 1068, subparts A through D. If the permittee adjusts engine settings according to and consistent with the manufacturer's instructions, the permittee's stationary SI internal combustion engine will not be considered out of compliance.

or

If the permittee does not operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, the permittee's engine will be considered a non-certified engine, and the permittee must demonstrate compliance by keeping a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions, but no performance testing is required.

or

If the permittee purchases and operates a non-certified stationary SI internal combustion engine, the permittee must keep a maintenance plan and records of conducted maintenance and must to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition the permittee must conduct an initial performance test in accordance with the procedures of 40 CFR 60 Subpart JJJJ - §60.4244 to demonstrate compliance.

TAPCR 1200-03-09-.03(8) and 40 CFR 60 Subpart JJJJ - §60.4243(a)(1), (2), and (b)(1)

11. The permittee must operate the emergency stationary ICE according to the requirements in paragraphs (a) through (c) of this condition. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (a) through (c) of this condition, is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (a) through (c) of this condition, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

- (a) There is no time limit on the use of emergency stationary ICE in emergency situations.
- (b) The permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraphs (1) through (3) below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (c) of this condition counts as part of the 100 hours per calendar year allowed by this paragraph.
 - (1) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

- (2) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
- (3) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- (c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (b)(2) of this condition. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

TAPCR 1200-03-09-.03(8) and 40 CFR 60 Subpart JJJJ - §60.4243(d)(1) through (3)

- 12. Pursuant to 40 CFR 60 Subpart JJJJ - §60.4245(a)(3), the permittee must keep documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR 90, 40 CFR 1048, 40 CFR 1054, and 40 CFR 1060, as applicable.

or

Pursuant to 40 CFR 60 Subpart JJJJ - §60.4245(a)(4), if the engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR 60 Subpart JJJJ - §60.4243(a)(2), the permittee must keep documentation that the engine meets the emission standards.

TAPCR 1200-03-09-.03(8) and 40 CFR 60 Subpart JJJJ - §60.4245(a)(3) and (4)

- 13. Routine maintenance, as required to maintain specified emission limits, shall be performed on the engine as required in **Condition 10**. Maintenance records shall be recorded in a suitable permanent form within seven (7) days of any maintenance inspections and/ or repairs and kept available for inspection by the Technical Secretary or a Division representative. These records must be retained at the source location for a period of not less than two years.

TAPCR 1200-03-10-.02(2)(a), TAPCR 1200-03-09-.03(8) and 40 CFR 60 Subpart JJJJ - §60.4243

14. The permittee shall keep a record of operating hours of the engine for each month and each calendar year at this source, in a form that readily provides the information required in the following tables and shows compliance with **Condition 11** of this permit. All data, including all required calculations, must be entered in the log no later than thirty (30) days from the end of the month for which the data is required. The permittee shall retain this record at the source location for a period of not less than two (2) years and keep this record available for inspection by the Technical Secretary or a Division representative.

Table 1				
Year:				
Month	Operating Hours per Month			Comments**
	Maintenance checks & readiness testing	Other non-emergency operation	Emergency operation	
January				
February				
etc.				
Totals				
** The permittee must document how many hours are spent for emergency operation; including what classified the operation as emergency and how many hours are spent for non-emergency operation.				

Table 2	
Year:	
Month	Operating Hours per Month
	Maintenance checks & readiness testing and other non-emergency operation **
January	
February	
Etc.	
Total	
** Sum of operating hours in columns 2 and 3 in Table 1 above for each month	

TAPCR 1200-03-10-.02(2)(a)

15. Under the Provisions of 40 CFR 63 Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), this source is considered to be “new” stationary RICE located at an “Area Source.” This unit is considered to be new because its construction commenced on or after June 12, 2006. 40 CFR 63 Subpart ZZZZ - §63.6590(a)(2)(iii)

§63.6590(c)(1) of 40 CFR 63 Subpart ZZZZ states that a new or reconstructed stationary RICE located at an area source must meet the requirements of this part by meeting the requirements of 40 CFR Part 60 Subpart JJJJ, for stationary spark ignition internal combustion engines. No further requirements apply for such engines under 40 CFR 63 Subpart ZZZZ.

TAPCR 1200-03-09-.03(8) and 40 CFR 63 Subpart ZZZZ - §§63.6590 and 63.6595

16. Visible emissions from this source shall not exhibit greater than twenty percent (20%) opacity, except for one (1) six-minute period in any one (1) hour period and for no more than four (4) six-minute periods in any twenty-four (24) hour period. Visible emissions from this source shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-05-.03(6) and TAPCR 1200-03-05-.01(1)

17. This permit is valid only at this location.

TAPCR 1200-03-09-.03(6)

18. This source shall comply with all applicable state and federal air pollution regulations. This includes, but is not limited to, federal regulations published under 40 CFR 63 for sources of hazardous air pollutants and 40 CFR 60, New Source Performance Standards.

TAPCR 1200-03-09-.03(8)

19. This source shall operate in accordance with the terms of this permit and the information submitted in the approved permit application.

TAPCR 1200-03-09-.01(1)(d) and the permit application dated June 29, 2015

20. This permit shall serve as a temporary operating permit from the date of issuance to the receipt of a standard operating permit, provided that an application for an operating permit is submitted to the Division at least sixty (60) days prior to the expiration of this permit and that the conditions of this permit and any applicable emission standards are met. The application for an operating permit shall be submitted to the East Tennessee Permit Program at the address listed below or via e-mail.

East Tennessee Permit Program
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15TH Floor
Nashville, TN 37243

or

Adobe Portable Document Format (PDF)
Copy to: Air.Pollution.Control@tn.gov

TAPCR 1200-03-09-.02(2) and (3)

(end of conditions)

The permit application gives the location of this source as 36-08-11.2N latitude, 85-30-19.9W longitude.